

# HD & IR to CAT5e/CAT6 Transmitter & Receiver - ID# 782 - 783



## Operation Manual

## Introduction

The HDMI with RS-232 over Single CAT5e/CAT6 transmitter and receiver set can send uncompressed audio/video over a single run of CAT5e/6 cable up to 100m with POE feature and the added benefit of control through the built-in RS-232 and IR ports and a bi-directional LAN connection.

## Applications

- Household entertainment sharing and control
- Lecture room display and control
- Showroom display and control
- Meeting room presentation and control
- Classroom display and control

## Features

- HDMI 1.4 with 3D, 4k×2k support, HDCP & DVI Compliant
- Supports CEC bypass
- Simultaneous transmission of uncompressed data over a single 100 m/328 ft CAT6/CAT5e cable
- Uncompressed video 1080p, 60 Hz, 36-bit
- Audio support up to 7.1CH & Dolby TrueHD, DTS-HD
- 5Play™ convergence: HDMI, LAN, POE & Control (IR & RS232)
- Installation Friendly

### **Note:**

**1.** *This system was tested with CAT-6E/23AWG cables, results may vary with cables of a different specification.*

**2.** *The POE function is designed to support the same family type's receiver devices, it is not designed to power other devices.*

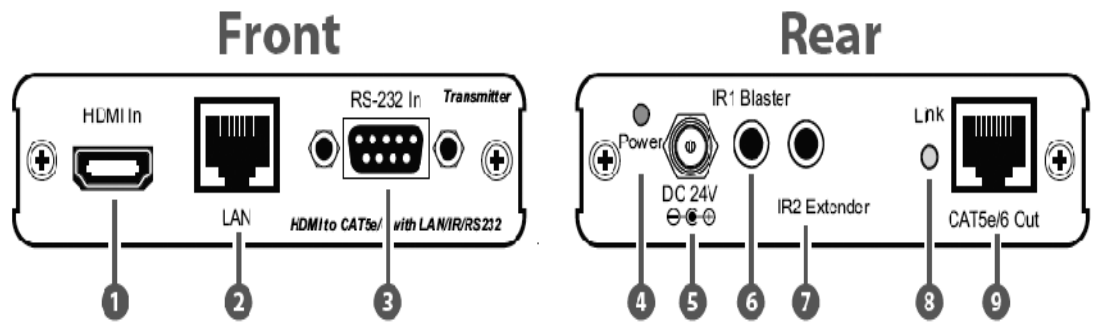
**3.** *The POE function is designed to support the same family type of device (here it means receiver) only. It is not design to power other non-family type of devices.*

## System Requirements

Input HDMI source equipment such as DVD/Blu-ray player and HDMI equipped output display (TV or monitor).



## Operation Controls and Functions Transmitter



### 1. HDMI In

Connect to HDMI source equipment such as a DVD or Blu-ray player.

### 2. LAN

Connect to an internet or network connection.

### 3. RS-232 In

Connect to a PC or laptop with D-Sub 9 pin male cable for the transmission of RS-232 commands.

### 4. Power LED

This blue LED will illuminate when the device is connected to a power supply.

### 5. DC 24V

Plug the 24 V DC power supply into the unit and connect the adaptor to an AC outlet.

### 6. IR 1 Blaster

Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line-of-sight of the equipment to be controlled.

### 7. IR 2 Extender

Connect to the supplied IR receiver cables for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR extender.

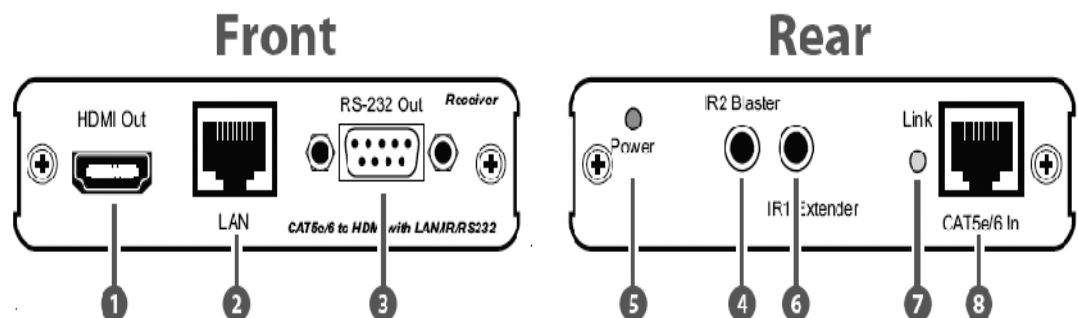
### 8. Link LED

The yellow LED will illuminate when both the input and output signals are connected.

### 9. CAT5e/6 Out

Connect to the receiver unit with a Single CAT5e/6 cable for transmission of all data signals.

## Receiver



### 1. HDMI Out

Connect to a HDMI equipped TV/monitor for display of the HDMI input source signal.

### 2. LAN

Connect to a PC or Laptop to the Internet or network connection.

## D-Sub 9 pin definitions

### 3. RS-232 Out

Connect to the device that is to be controlled (via D-Sub 9 pin female cable) by RS-232 commands.

### 4. Power LED

This blue LED will illuminate when the device is connected to a power supply.

### 5. IR 2 Blaster

Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line of sight of the equipment to be controlled.

### 6. IR 1 Extender

Connect to the supplied IR receiver cables for IR signal reception. Ensure that remote being used is within the direct line-of-sight of the IR extender.

### 7. Link LED

The yellow LED will illuminate when both the input and output signals are connected.

### 8. CAT5e/6 In

Connect to the transmitter unit with a Single CAT5e/6 cable for transmission of all data signals.

Pin	Define TxD / RxD
1	N/C
2	TxD / RxD
3	RxD / TxD
4	N/C
5	GND
6	N/C
7	N/C
8	N/C
9	N/C

## Specifications

<b>Video Bandwidth</b>	300MHz/9Gbps
<b>Ethernet Speed</b>	100Mbps
<b>Transmitter</b>	
<b>Input</b>	1 × HDMI, 1 × IR Extender, 1 × RS-232, 1 × LAN
<b>Output</b>	1 × CAT5e/6, 1 × IR Blaster
<b>Receiver</b>	
<b>Input</b>	1 × CAT5e/6, 1 × IR Extender
<b>Output</b>	1 × HDMI, 1 × RS-232, 1 × IR Blaster, 1 × LAN
<b>ESD Protection</b>	Human Body Model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)
<b>IR Frequency</b>	30~50 kHz
<b>Power Supply</b>	24 V/1.25 A DC (US/EU Standards, CE/FCC/UL certified)
<b>Dimensions</b>	102mm (W) × 115mm (D) × 25mm (H)/Each
<b>Weight</b>	252g (TX), 256g (RX)
<b>Chassis Material</b>	Aluminum
<b>Silkscreen Color</b>	Silver
<b>Power Consumption</b>	13 W
<b>Operating Temperature</b>	0 °C~40 °C/32 °F ~104 °F
<b>Storage Temperature</b>	-20 °C~60 °C/-4 °F~140 °F
<b>Relative Humidity</b>	20~90 % RH (non-condensing)

# Connection

